

AMENDED CLAIMS

[received by the International Bureau on 08 August 2005 (08.08.05);
original claims 1-3 replaced by new claims 1-5 (2 pages)]

1. Compounds of structural formula I and formula II as modulators of histone acetyl transferase wherein:

R1 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-C1, O-SO₂-CH₃, O-CH₂-CHOH-CH₃;

R2 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-C1, O-SO₂-CH₃, O-CH₂-CHOH-CH₃;

R3 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-C1, O-SO₂-CH₃, O-CH₂-CHOH-CH₃;

R4 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-C1, O-SO₂-CH₃, O-CH₂-CHOH-CH₃; and

R5 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-C1, O-SO₂-CH₃, O-CH₂-CHOH-CH₃.

2. A process for preparing compounds described in claim 1, comprising the step of reacting equimolar quantities of garcinol and isogarcinol with respective halo compounds at 30-60°C degree Centigrade in the presence of alkaline hydroxides or alkaline carbonates, in the presence of a solvent such as acetone, CHCl₃, MDC, or EDC, purifying the compound so obtained by known methods.

3. Use of the compounds of formula I and II as modulators of Histone Acetyltransferase activity.

4. Use of the compounds of formula I and II in the manufacture of a medicament for the therapeutic and/or prophylactic treatment of diseases due to defects in gene regulation predominantly or at a risk of cancer.

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5. A composition for use as an modulator of histone acetyltransferase activity comprising therapeutically effective amounts of a compound of formula I and II or a pharmaceutically acceptable salt or solvate of these compounds to modulate histone acetyltransferases.